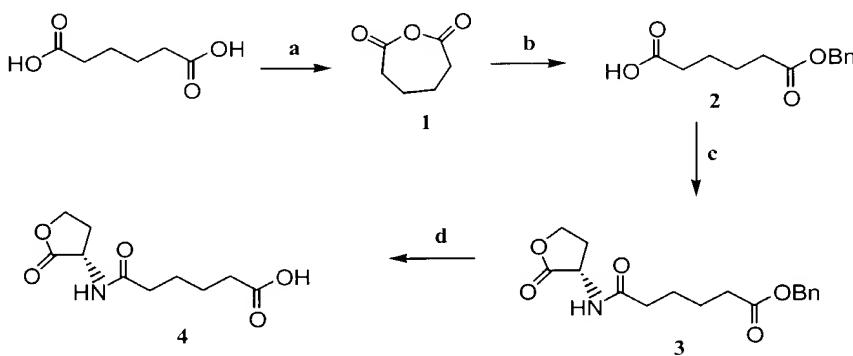


Scheme 1[†]

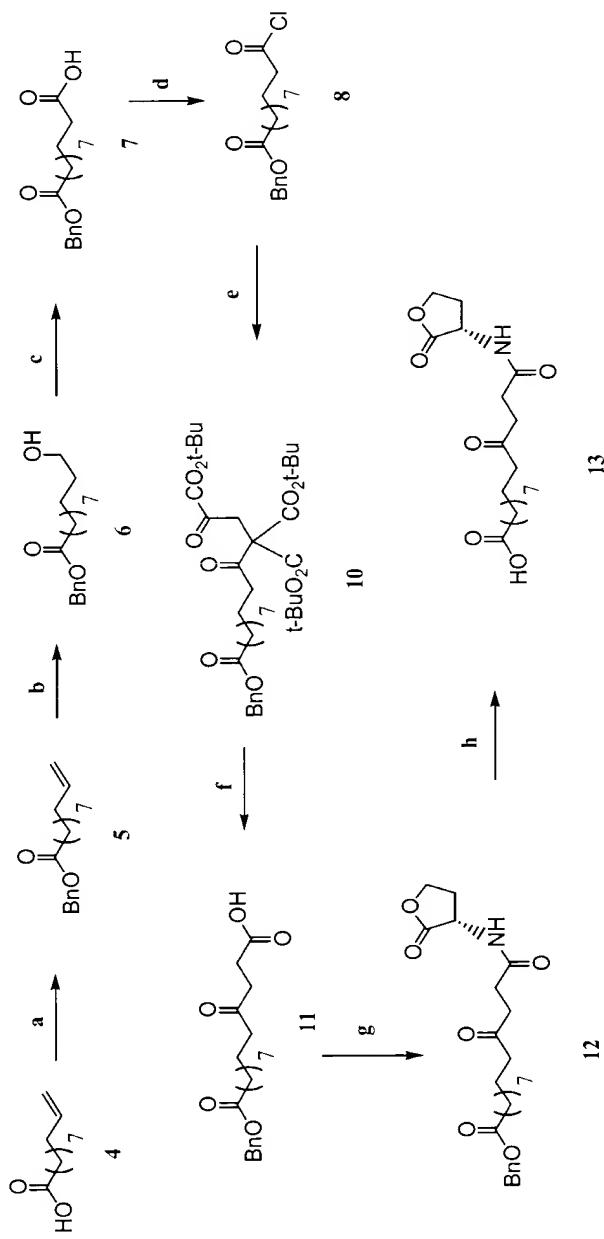


[†]

a, Ac₂O, reflux ; b, C₆H₅CH₂OH/CH₂Cl₂ ; c, homoserine lactone hydrobromide, EDC, HCl, CH₂Cl₂, pyridine ; d, Pd/C, H₂, EtOAc.

FIGURE 1

Scheme 2[†]



[†]
 a. K_2CO_3 , BnBr , DMF ; b. (1) BH_3/THF , (2) $\text{NaOH}, \text{H}_2\text{O}_2$; c. pyridinium dichromate, DMF ; d. $(\text{COCl})_2$, toluene; e. $\text{NaH}, 9, \text{THF}$;
 f. p-TsOH , toluene, reflux; g. $\text{EDCl}, \text{CH}_2\text{Cl}_2$, homoserine lactone hydrobromide, Hunig's base; h. $\text{Pd/C (10\%)} / \text{H}_2$.

FIGURE 2

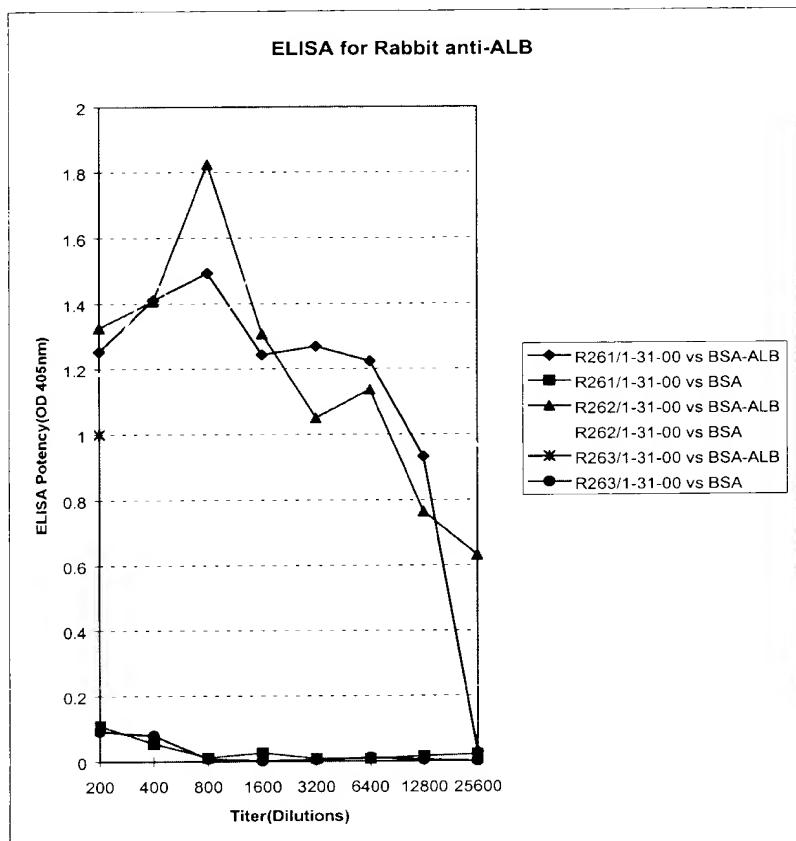


FIGURE 3